

Revision:A

- **E2** model has been added.
- 9-2. Failure mode recall function has been changed.
- RoHS PARTS LIST has been added.

Please void OB441.

INDOOR UNIT

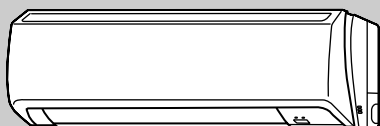
SERVICE MANUAL

No. OB441
REVISED EDITION-A

Wireless type Models

MSZ-CB22VA	— E1
MSZ-CB22VA	— E2
MSZ-CB25VA	— E1
MSZ-CB25VA	— E2
MSZ-CB35VA	— E1
MSZ-CB35VA	— E2

Outdoor unit service manual
MUZ-GA-VA Series (OB379)
MXZ-A-VA Series (OB377)



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NOTE:

RoHS compliant products have <G> mark on the spec name plate.
For servicing of RoHS compliant products, refer to the RoHS Parts List.



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1

TECHNICAL CHANGES

MSZ-GA22VA-E1**** → **MSZ-CB22VA-**E1****

MSZ-GA25VA-E1**** → **MSZ-CB25VA-**E1****

MSZ-GA35VA-E1**** → **MSZ-CB35VA-**E1****

1. Color of BOX and CORNER BOX has been changed to white.

MSZ-CB22VA-E1**** → **MSZ-CB22VA-**E2****

MSZ-CB25VA-E1**** → **MSZ-CB25VA-**E2****

MSZ-CB35VA-E1**** → **MSZ-CB35VA-**E2****

1. The operation of thermo-off-unit has been changed. (When 2 or more indoor units are connected with a multi type outdoor unit, and operated in heat mode.)
 - <**E1**>Indoor fan operates with very Low speed or stops.
 - <**E2**>Indoor fan operates intermittently with very Low speed or stops.

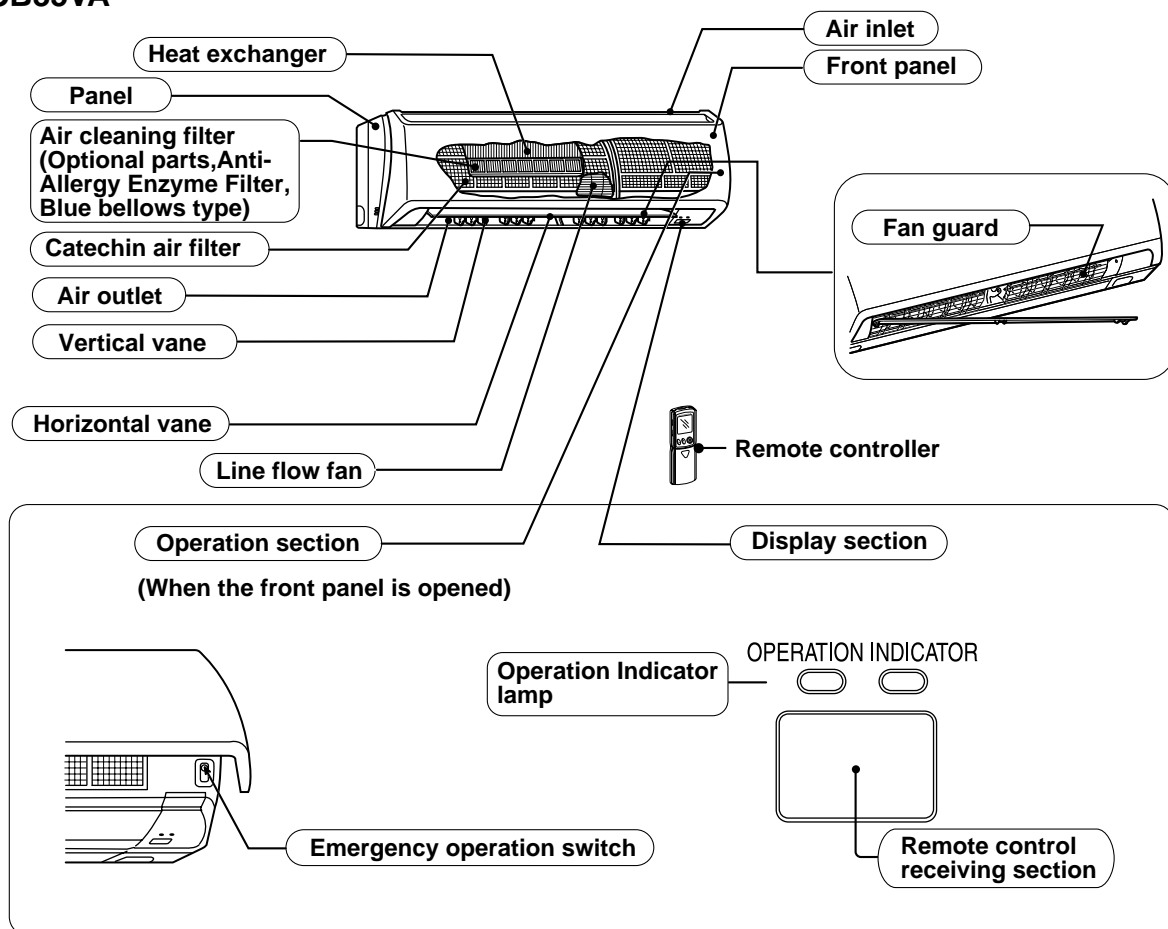
MSZ-CB25VA-E1**** → **MSZ-CB25VA-**E2****

1. Indoor fan speed has been changed.

MSZ-CB22VA

MSZ-CB25VA

MSZ-CB35VA

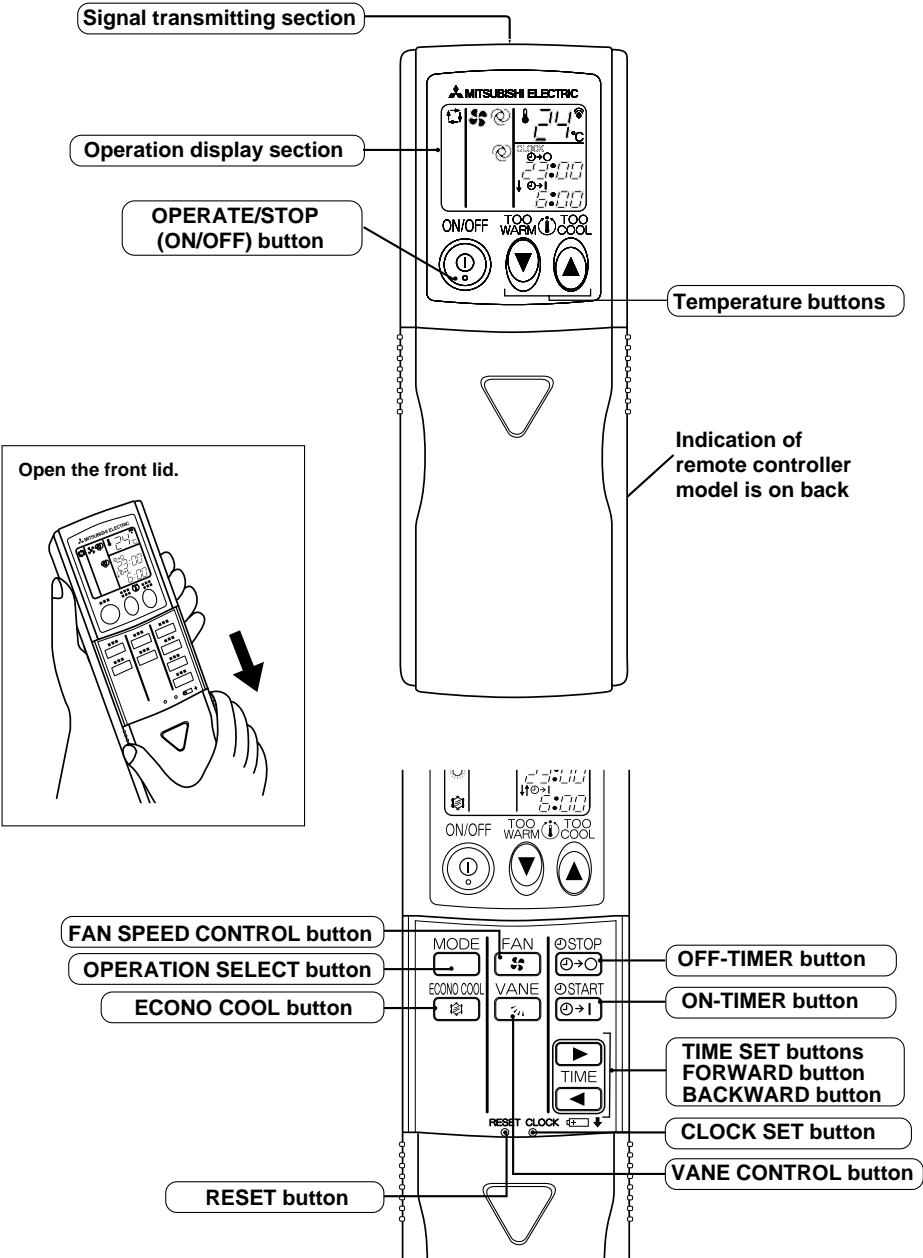


MSZ-CB22VA
MSZ-CB25VA
MSZ-CB35VA

ACCESSORIES

①	Installation plate	1
②	Installation plate fixing screw 4 × 25 mm	5
③	Remote controller holder	1
④	Fixing screw for ③ 3.5 × 1.6 mm (Black)	2
⑤	Battery (AAA) for remote controller	2
⑥	Wireless remote controller	1
⑦	Felt tape (Used for left or left-rear piping)	1

REMOTE CONTROLLER



Indoor model			MSZ-CB22VA		MSZ-CB25VA			MSZ-CB35VA	
Function			Cooling	Heating	Cooling	Heating		Cooling	Heating
						①	②		
Power supply			Single phase 230V,50Hz		Single phase 230V,50Hz			Single phase 230V,50Hz	
Capacity	Air flow(Super High/High)	m³ /h	600/480	630/504	600/480	630/504	486/408	600/480	630/504
	Air flow(Med./Low)		366/234	384/258	366/234	384/258	336/258	366/246	384/270
Electrical data	Power outlet	A	10		10			10	
	Running current *1	A	0.25		0.25			0.25	
	Power input *1	W	33		33			33	
	Power factor *1	%	57		57			57	
	Fan motor current *1	A	0.25		0.25			0.25	
Fan motor	Model		RC0J30-CC		RC0J30-CC			RC0J30-CC	
	Dimensions W×H×D	mm	780×298×210		780×298×210			780×298×210	
	Weight	kg	9		9			9	
Special remarks	Air direction		4		4			4	
	Sound level(Super High)	dB(A)	43		43			43	
	Sound level(High/Med./Low)	dB(A)	36/29/21		36/29/21			36/29/22	
	Fan speed(Super High/High)	rpm	1,200/1,000	1,250/1,040	1,200/1,000	1,250/1,040	1,010/880	1,200/1,000	1,250/1,040
	Fan speed(Med./Low)		800/580	830/620	800/580	830/620	750/620	800/600	830/640
	Fan speed regulator		4		4			4	
Remote controller model			KM05B		KM05B			KM05B	

① : E1 (serial number : ~ 6000120)

② : E1 (serial number : 6000121 ~) , E2

NOTE : Test conditions are based on ISO 5151

Cooling : Indoor Dry-bulb temperature 27°C Wet-bulb temperature 19°C

Outdoor Dry-bulb temperature 35°C Wet-bulb temperature 24°C

Heating : Indoor Dry-bulb temperature 20°C Wet-bulb temperature 15°C

Outdoor Dry-bulb temperature 7°C Wet-bulb temperature 6°C

Refrigerant piping length (one way): 5m

*1 Measured under rated operating frequency.

Specifications and rating conditions of main electric parts

INDOOR UNIT

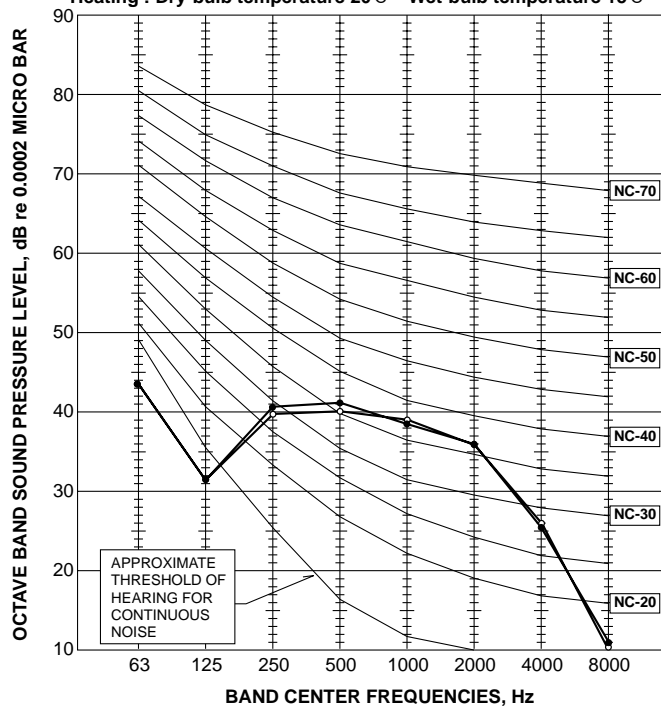
Fuse	(F11)	T3.15AL 250V
Horizontal vane motor	(MV)	MSBPC20M16 12V DC 250Ω (at 25°C)
Varistor	(NR11)	ERZV14D471
Terminal block	(TB)	3P

MSZ-CB22VA
MSZ-CB25VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	43	●—●
	HEATING	43	○—○

Test conditions

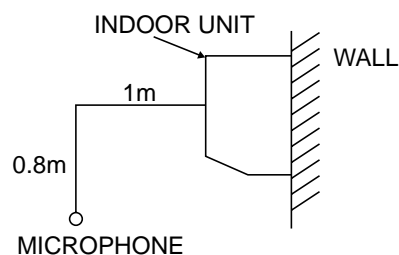
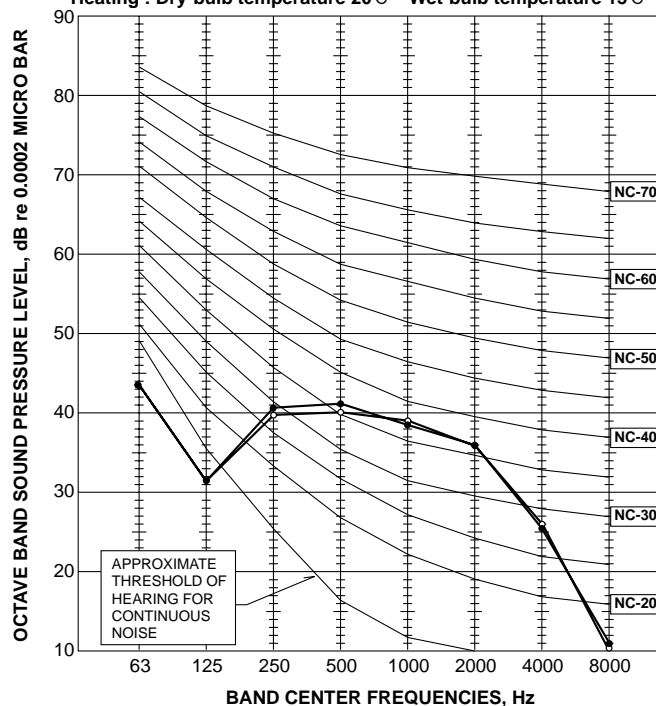
Cooling : Dry-bulb temperature 27°C Wet-bulb temperature 19°C
 Heating : Dry-bulb temperature 20°C Wet-bulb temperature 15°C


MSZ-CB35VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	43	●—●
	HEATING	43	○—○

Test conditions

Cooling : Dry-bulb temperature 27°C Wet-bulb temperature 19°C
 Heating : Dry-bulb temperature 20°C Wet-bulb temperature 15°C

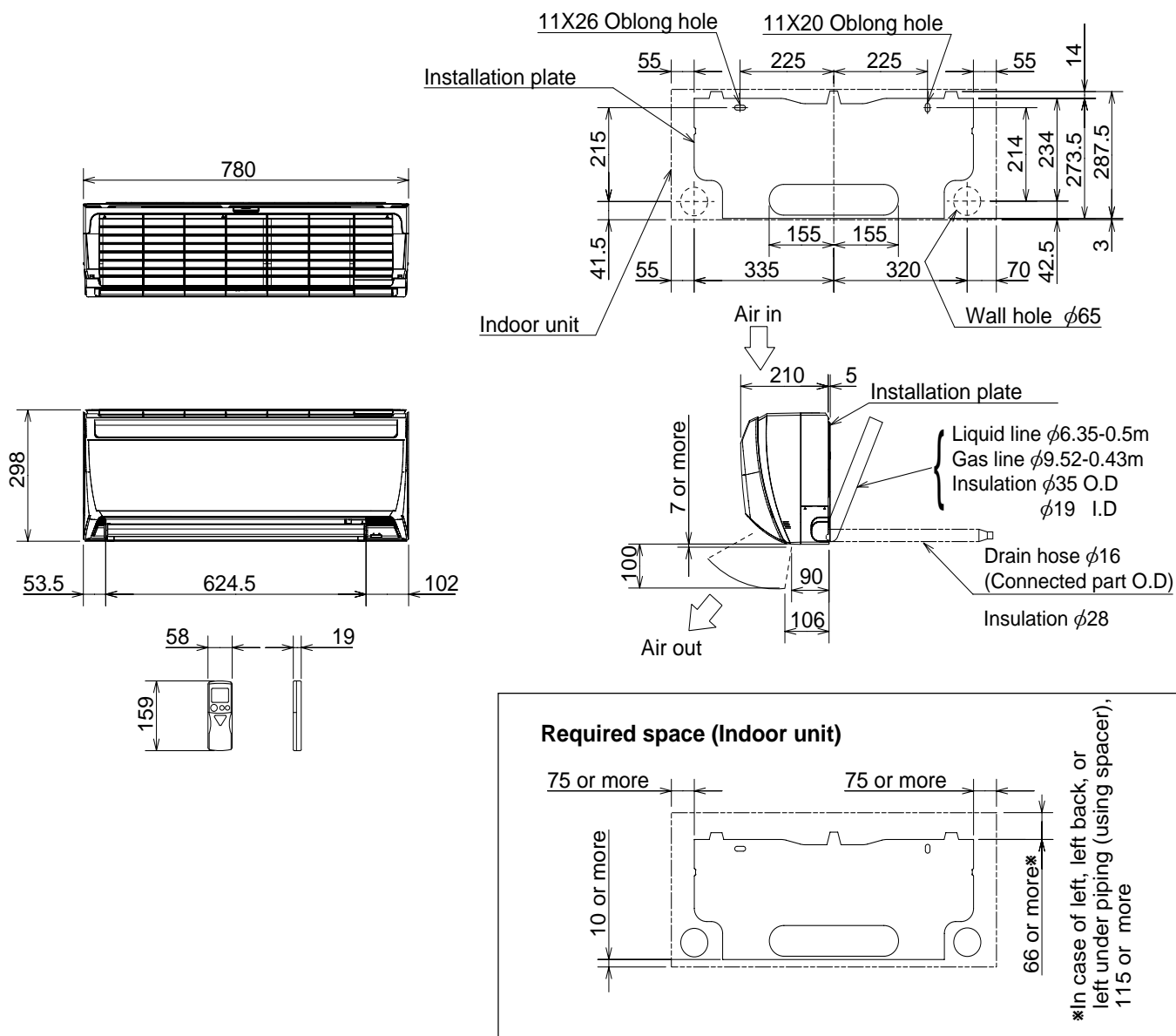


5

OUTLINES AND DIMENSIONS

MSZ-CB22VA
MSZ-CB25VA
MSZ-CB35VA

Unit : mm



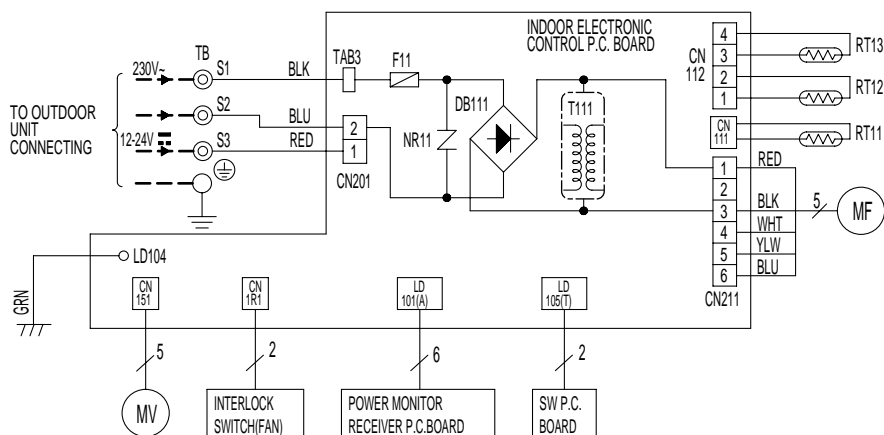
6

WIRING DIAGRAM

MSZ-CB22VA

MSZ-CB25VA

MSZ-CB35VA



SYMBOL	NAME	SYMBOL	NAME
DB111	DIODE STACK	RT11	ROOM TEMPERATURE THERMISTOR
F11	FUSE (T3.15A/250V)	RT12	INDOOR COIL THERMISTOR (MAIN)
MF	INDOOR FAN MOTOR	RT13	INDOOR COIL THERMISTOR (SUB)
MV	VANE MOTOR (HORIZONTAL)	T111	TRANSFORMER
NR11	VARISTOR	TB	TERMINAL BLOCK

NOTE: 1. About the outdoor side electric wiring refer to the outdoor unit electric wiring diagram for servicing.

2. Use copper conductors only. (For field wiring)

3. Symbols below indicate.

◎: Terminal block, □: Connector

7

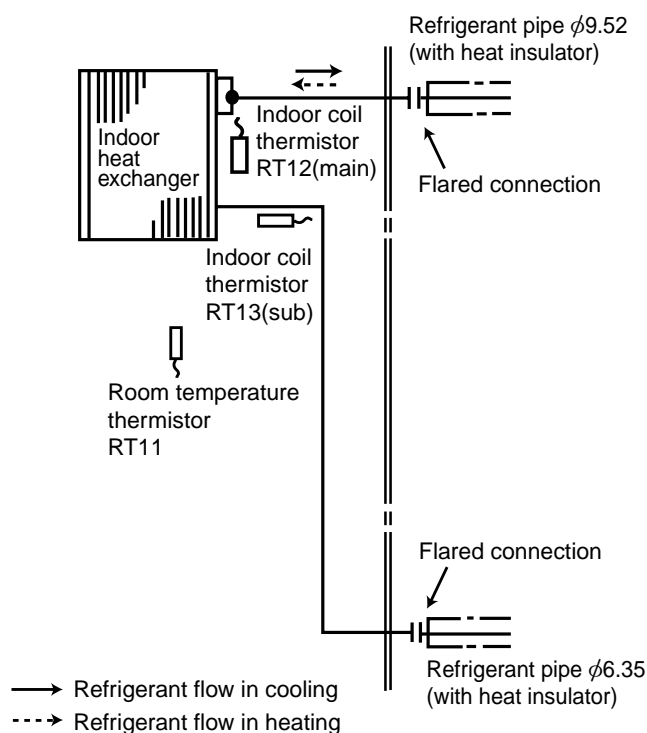
REFRIGERANT SYSTEM DIAGRAM

MSZ-CB22VA

MSZ-CB25VA

MSZ-CB35VA

Unit : mm



MSZ-CB22VA**MSZ-CB25VA****MSZ-CB35VA****8-1. TIMER SHORT MODE**

For service, set time can be shortened by short circuit of JPG and JPS the electronic control P.C. board.

The time will be shortened as follows. (Refer to 9-7.)

Set time : 1-minute → 1-second

Set time : 3-minute → 3-second (It takes 3 minutes for the compressor to start operation. However, the starting time is shortened by short circuit of JPG and JPS.)

8-2. P.C. BOARD MODIFICATION FOR INDIVIDUAL OPERATION

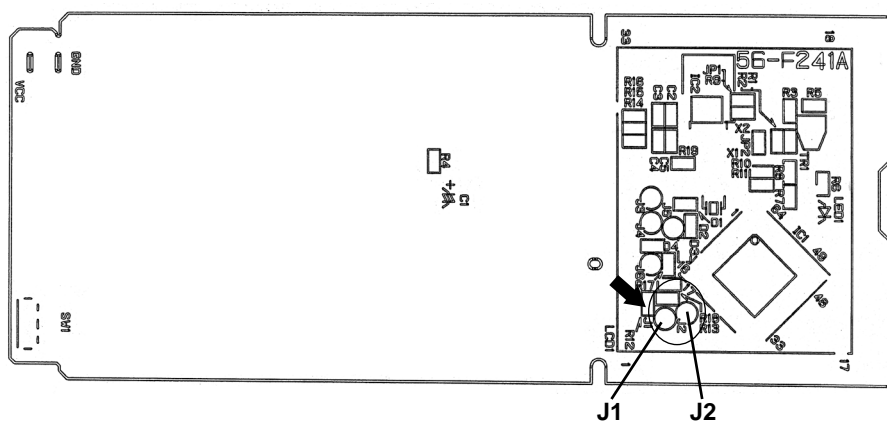
A maximum of 4 indoor units with wireless remote controllers can be used in a room.

In this case, to operate each indoor unit individually by each remote controller, P.C. boards of remote controller must be modified according to the number of the indoor unit.

How to modify the remote controller P.C. board

Remove batteries before modification.

The board has a print as shown below :



NOTE : For remodelling, take out the batteries and press the OPERATE/STOP(ON/OFF) button twice or 3 times at first.

After finish remodelling, put back the batteries then press the RESET button.

The P.C. board has the print "J1" and "J2". Solder "J1" and "J2" according to the number of indoor unit as shown in Table 1. After modification, press the RESET button.

Table 1

	1 unit operation	2 units operation	3 units operation	4 units operation
No. 1 unit	No modification	Same as at left	Same as at left	Same as at left
No. 2 unit	—	Solder J1	Same as at left	Same as at left
No. 3 unit	—	—	Solder J2	Same as at left
No. 4 unit	—	—	—	Solder both J1 and J2

How to set the remote controller exclusively for particular indoor unit

After you turn the breaker ON, the first remote controller that sends the signal to the indoor unit will be regarded as the remote controller for the indoor unit.

The indoor unit only accept the signal from the remote controller that has been assigned to the indoor unit once they are set.

The setting will be cancelled if the breaker has turned off, or the power supply has shut down.

Please conduct the above setting once again after the power has restored.

8-3. AUTO RESTART FUNCTION

When the indoor unit is controlled with the remote controller, the operation mode, the set temperature, and the fan speed are memorized by the indoor electronic control P.C. board. The "AUTO RESTART FUNCTION" sets to work the moment power has restored after power failure. Then, the unit will restart automatically.

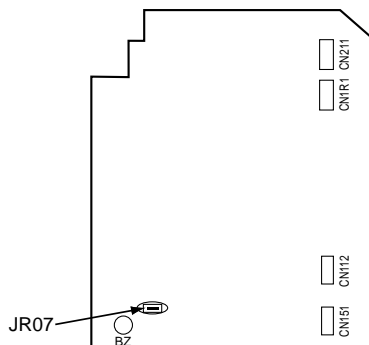
Operation

- ① If the main power has been cut, the operation settings remain.
- ② After the power is restored, the unit restarts automatically according to the memory.

(However, it takes at least 3 minutes for the compressor to start running.)

How to release "AUTO RESTART FUNCTION"

- ① Turn OFF the main power for the unit.
- ② Solder the Jumper wire to JR07 on the indoor electronic control P.C. board. (Refer to 9-7.)



NOTE:

- The operation settings are memorized when 10 seconds have passed after the indoor unit was operated with the remote controller.
- If main power is turned OFF or a power failure occurs while AUTO START/STOP timer is active, the timer setting is cancelled.
- If the unit has been off with the remote controller before power failure, the auto restart function does not work as the power button of the remote controller is off.
- To prevent breaker off due to the rush of starting current, systematize other home appliance not to turn ON at the same time.
- When some air conditioners are connected to the same supply system, if they are operated before power failure, the starting current of all the compressors may flow simultaneously at restart. Therefore, the special counter-measures are required to prevent the main voltage-drop or the rush of the starting current by adding to the system that allows the units to start one by one.

9 TROUBLESHOOTING

MSZ-CB22VA MSZ-CB25VA MSZ-CB35VA

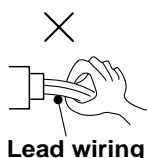
9-1. Cautions on troubleshooting

1. Before troubleshooting, check the following:

- 1) Check the power supply voltage.
- 2) Check the indoor/outdoor connecting wire for mis-wiring.

2. Take care of the following during servicing

- 1) Before servicing the air conditioner, be sure to turn OFF the main unit first with the remote controller, and then after confirming the horizontal vane is closed, turn OFF the breaker and / or disconnect the power plug.
- 2) Be sure to turn OFF the power supply before removing the front panel, the cabinet, the top panel, and the electronic control P.C. board.
- 3) When removing the electronic control P.C. board, hold the edge of the board with care NOT to apply stress on the components.
- 4) When connecting or disconnecting the connectors, hold the housing of the connector. DO NOT pull the lead wires.



3. Troubleshooting procedure

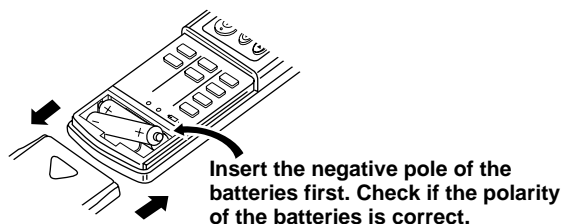
- 1) First, check if the OPERATION INDICATOR lamp on the indoor unit is flashing on and off to indicate an abnormality. To make sure, check how many times the abnormality indication is flashing on and off before starting service work.
- 2) Before servicing, check that the connector and terminal are connected properly.
- 3) If the electronic control P.C. board is supposed to be defective, check the copper foil pattern for disconnection and the components for bursting and discoloration.
- 4) When troubleshooting, refer to 9-2., 9-3. and 9-4.

4. How to replace batteries

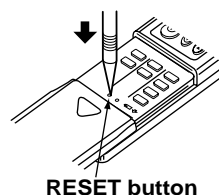
Weak batteries may cause the remote controller malfunction.

In this case, replace the batteries to operate the remote controller normally.

- ① Remove the front lid and insert batteries.
Then reattach the front lid.



- ② Press RESET button with tip end of ball point pen or the like, and then use the remote controller.



NOTE : 1. If RESET button is not pressed, the remote controller may not operate correctly.

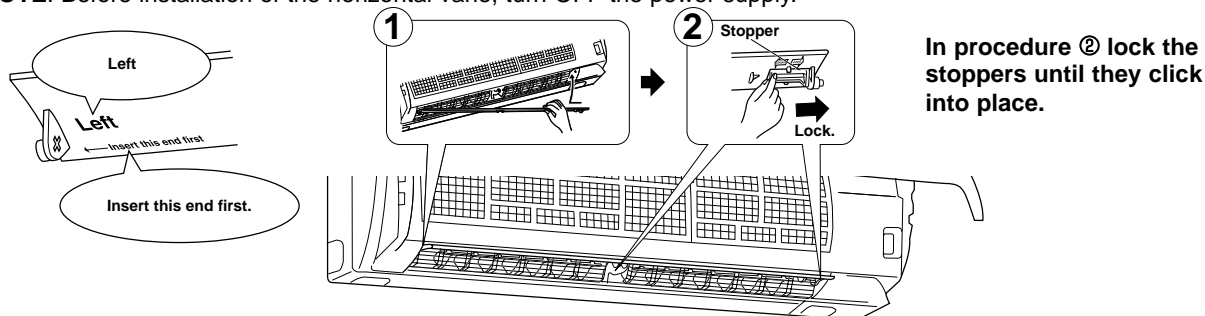
2. This remote controller has a circuit to automatically reset the microcomputer when batteries are replaced. This function is equipped to prevent the microcomputer from malfunctioning due to the voltage drop caused by the battery replacement.

5. How to install the horizontal vane

If horizontal vane is not installed correctly, all of the operation indicator lamps will blink.

In this case, install the horizontal vane correctly by following the procedures ① to ②.

NOTE: Before installation of the horizontal vane, turn OFF the power supply.



INFORMATION FOR MULTI SYSTEM AIR CONDITIONER

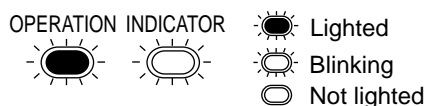
OUTDOOR UNIT : MXZ series

Multi system air conditioner can connect two or more indoor units with one outdoor unit.

- Unit won't operate in case the total capacity of indoor units exceeds the capacity of outdoor units. Do not connect indoor units beyond the outdoor unit capacity.

Operation indicator lamp flashes as shown in the figure below.

- When you try to operate two or more indoor units with one outdoor unit simultaneously, one for the cooling and the other for heating, the operation mode of the indoor unit that operates earlier is selected. The other indoor units cannot operate, indicating as shown in the figure below. In this case, please set all the indoor units to the same operation mode.



- When indoor units starts the operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. 10 minutes) to blow out the warm air.
- In the heating operation, though indoor unit that does not operate may get warm or the sound of refrigerant flowing may be heard, they are not malfunction. The reason is that the refrigerant continuously flows into it.

9-2. Failure mode recall function

Outline of the function

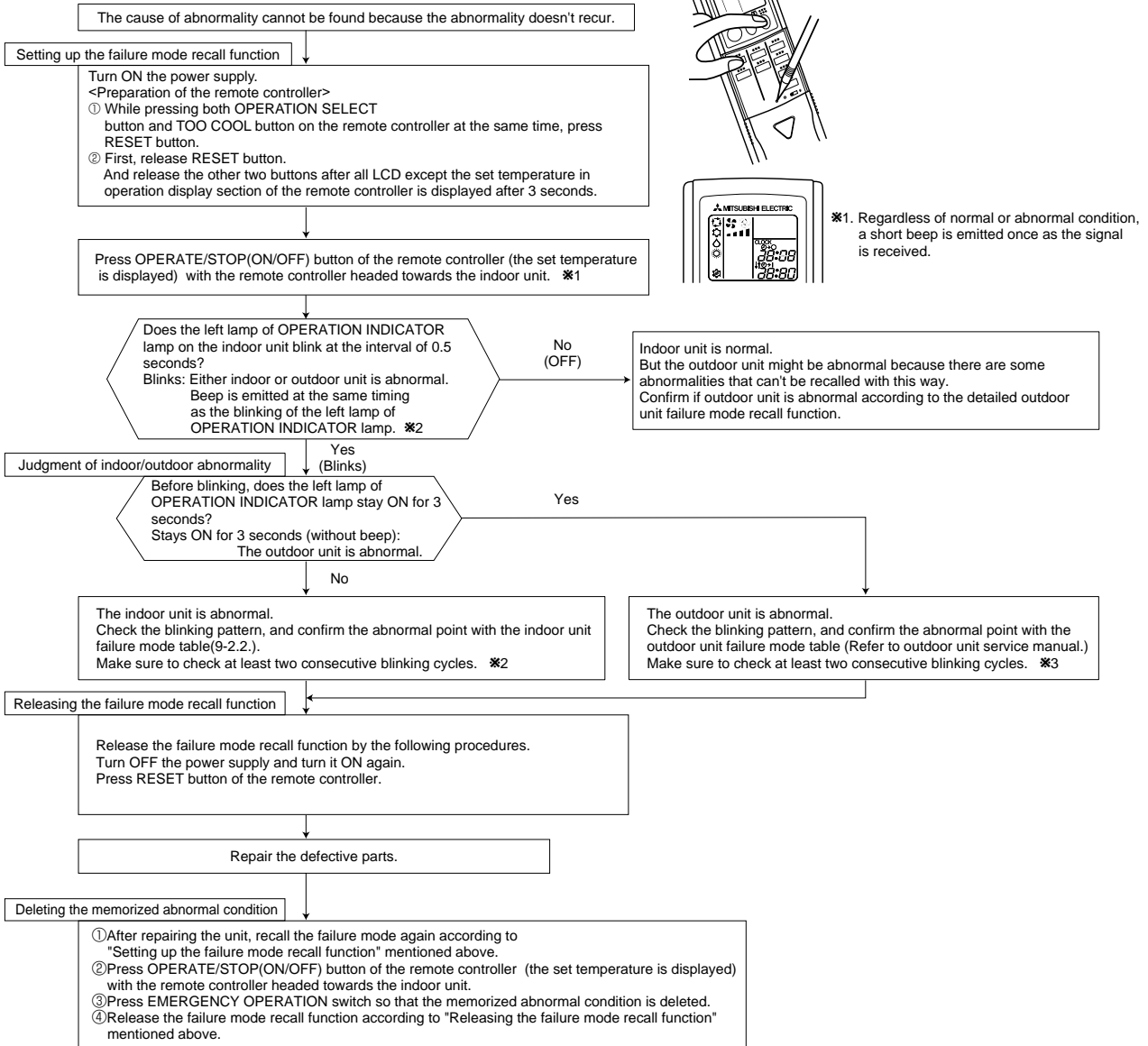
This air conditioner can memorize the abnormal condition which has occurred once.

Even though LED indication listed on the troubleshooting check table (9-4.) disappears, the memorized failure details can be recalled.

This mode is very useful when the unit needs to be repaired for the abnormality which doesn't recur.

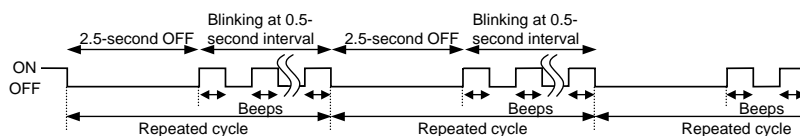
1. Flow chart of failure mode recall function for the indoor/outdoor unit

Operational procedure

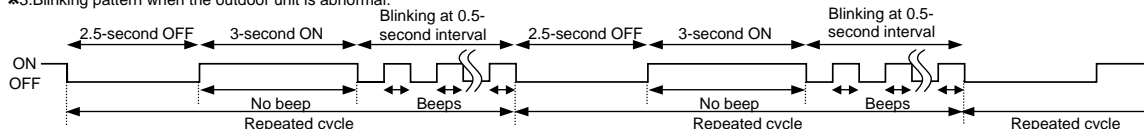


Note1. Make sure to release the failure mode recall function once it's set up, otherwise the unit cannot operate properly.
2. If the abnormal condition is not deleted from the memory, the last abnormal condition is kept memorized.

※2. Blinking pattern when the indoor unit is abnormal:



※3. Blinking pattern when the outdoor unit is abnormal:

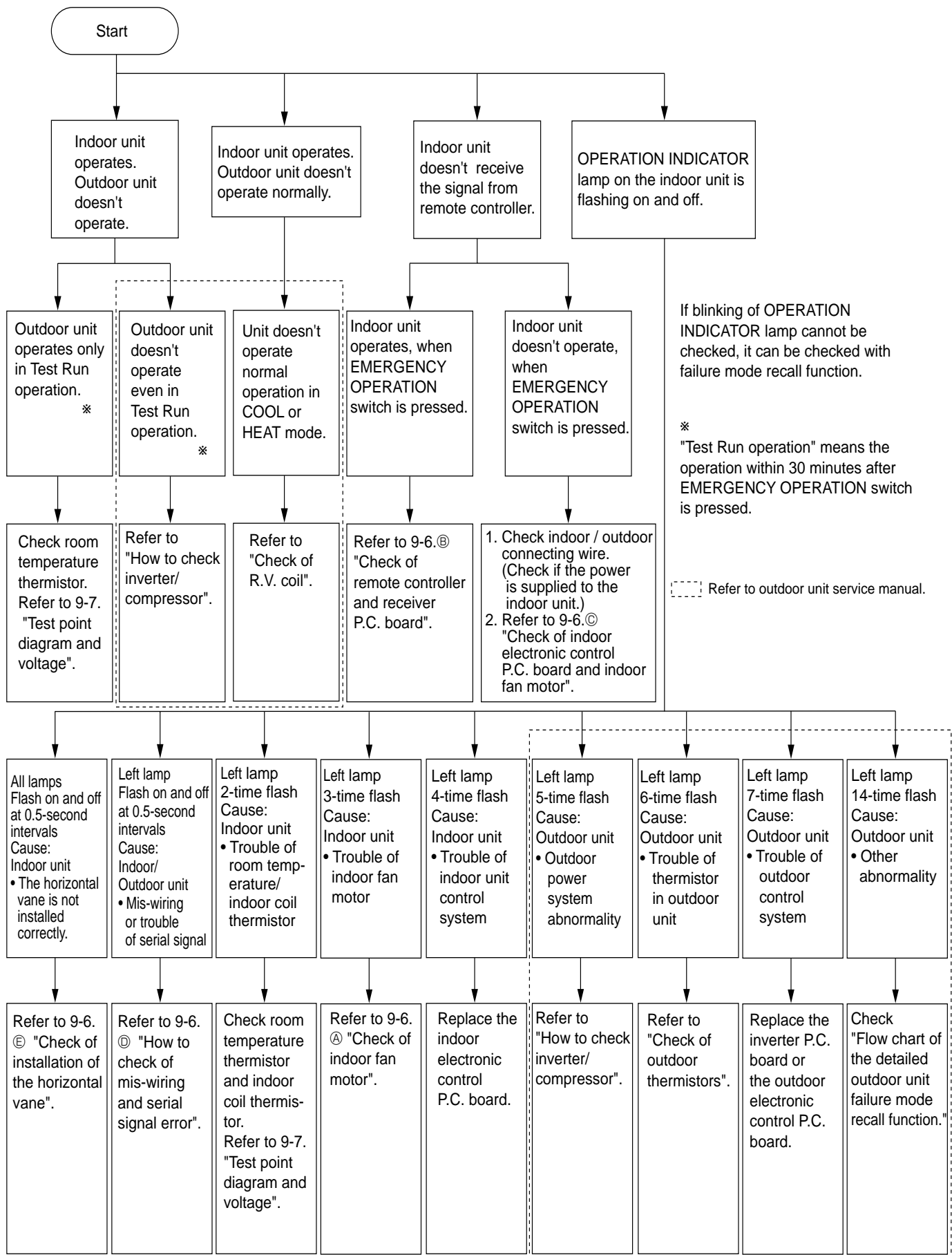


2. Indoor unit failure mode table

Left lamp of OPERATION INDICATOR lamp	Abnormal point (Failure mode)	Condition	Correspondence
Not lighted	Normal	—	—
1-time flash every 0.5-second	Room temperature thermistor	When the room temperature thermistor short or open circuit is detected every 8 seconds during operation.	Refer to the characteristics of the room temperature thermistor (9-7.).
2-time flash 2.5-second OFF	Indoor coil thermistor	When the indoor coil thermistor short or open circuit is detected every 8 seconds during operation.	Refer to the characteristics of the main indoor coil thermistor, the sub indoor coil thermistor (9-7.).
3-time flash 2.5-second OFF	Serial signal	When the serial signal from outdoor unit is not received for a maximum of 6 minutes.	Refer to 9-6.⑥ "How to check mis-wiring and serial signal error".
11-time flash 2.5-second OFF	Indoor fan motor	When the rotational frequency feedback signal is not emit during the 12-seconds the indoor fan operation.	Refer to 9-6.④ "Check of indoor fan motor".
12-time flash 2.5-second OFF	Indoor control system	When it cannot properly read data in the nonvolatile memory of the indoor electronic control P.C. board.	Replace the indoor electronic control P.C. board.




NOTE : Blinking patterns of this mode differ from the ones of Troubleshooting check table(9-4.).

9-3. Instruction of troubleshooting





Before taking measures, make sure that the symptom reappears for accurate troubleshooting.
When the indoor unit has started operation and the following detection method has detected an abnormality (the first detection after the power ON), the indoor electronic control P.C. board turns OFF the indoor fan motor with OPERATION INDICATOR lamp flashing.


OPERATION INDICATOR


	Lighted
	Blinking
	Not lighted


15


OPERATION INDICATOR  Lighted · Flashing of OPERATION INDICATOR lamp (all lamps) indicates abnormality.


 Blinking


 Not lighted

No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Correspondence
1	Attachment of the horizontal vane	All lamps flash at the same time. 0.5-second ON  0.5-second OFF	Indoor unit and outdoor unit do not operate.	When the electricity is not conducted to the interlock switch (Fan) of the horizontal vane.	• Refer to 9-6.⑥ "Check of installation of the horizontal vane".

OPERATION INDICATOR  Lighted · Flashing of OPERATION INDICATOR lamp (right-hand side lamp) indicates abnormality.

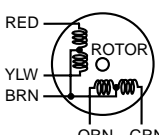
 Blinking · OPERATION INDICATOR lamp (left-hand side lamp) is lighted.

 Not lighted

No.	Abnormal point	Operation indicator lamp	Symptom	Condition	Correspondence
1	MXZ type Operation mode setting	Right lamp flash  2.5-second OFF	Outdoor unit operates but indoor unit does not operate.	When the operation mode of the each indoor unit is differently set to COOL(includes DRY) and HEAT at the same time, the operation mode of the indoor unit that has operated at first has the priority.	• Unify the operation mode. Refer to outdoor unit service manual.

9-5. Trouble criterion of main parts

MSZ-CB22VA MSZ-CB25VA MSZ-CB35VA

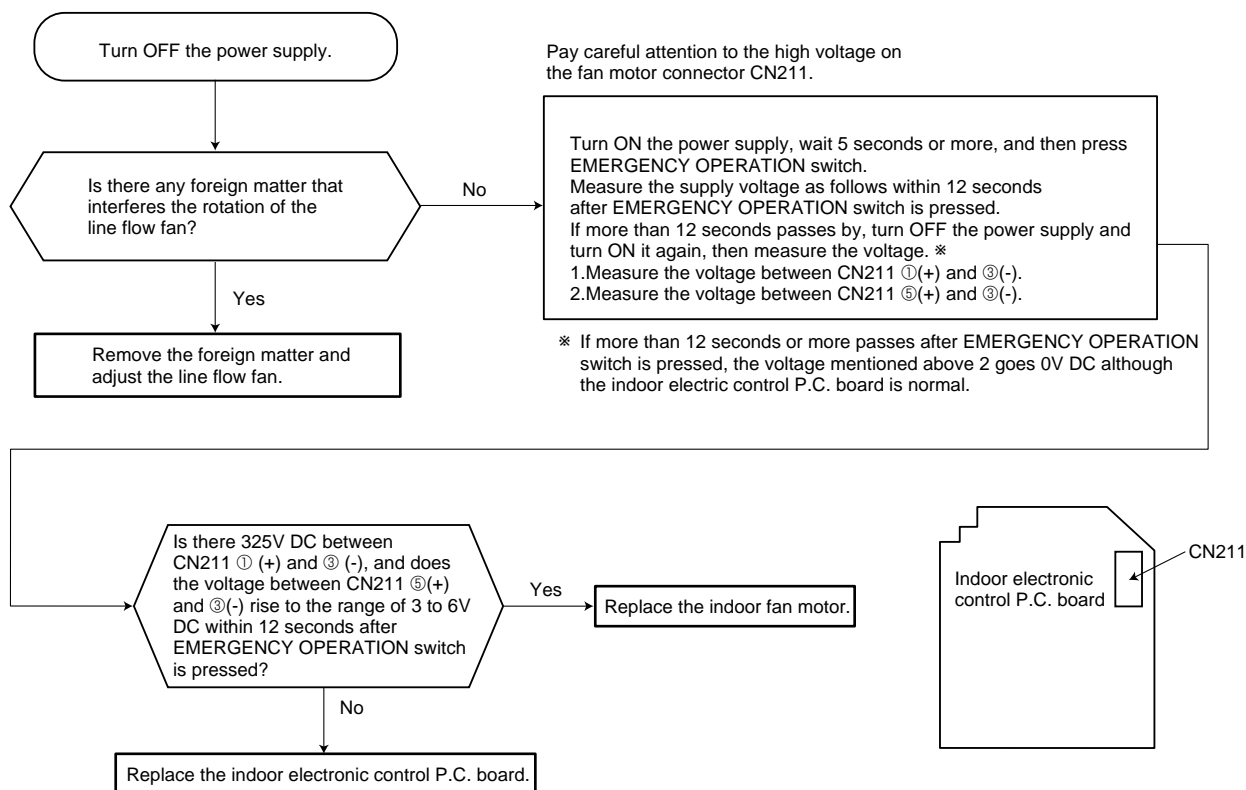
Part name	Check method and criterion		Figure
Room temperature thermistor(RT11)	Measure the resistance with a tester.		
Indoor coil thermistor (RT12(MAIN), RT13(SUB))	Refer to 9-7."Test point diagram and voltage", "Indoor electronic control P.C. board", the chart of thermistor.		
Indoor fan motor(MF)	Check 9-6. ㉔.		
Horizontal vane motor(MV)	Measure the resistance between the terminals with a tester. (Part temperature 10°C ~ 30°C)		
	Color of the lead wire	Normal	
	BRN-other one	235 Ω ~ 255 Ω	

9-6. Troubleshooting flow

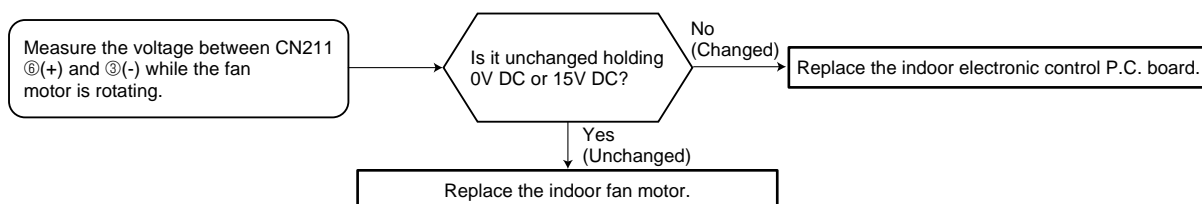
When OPERATION INDICATOR lamp flashes 3-time.
Indoor fan does not operate.

Ⓐ Check of indoor fan motor

The indoor fan motor error has occurred, and the indoor fan doesn't operate.



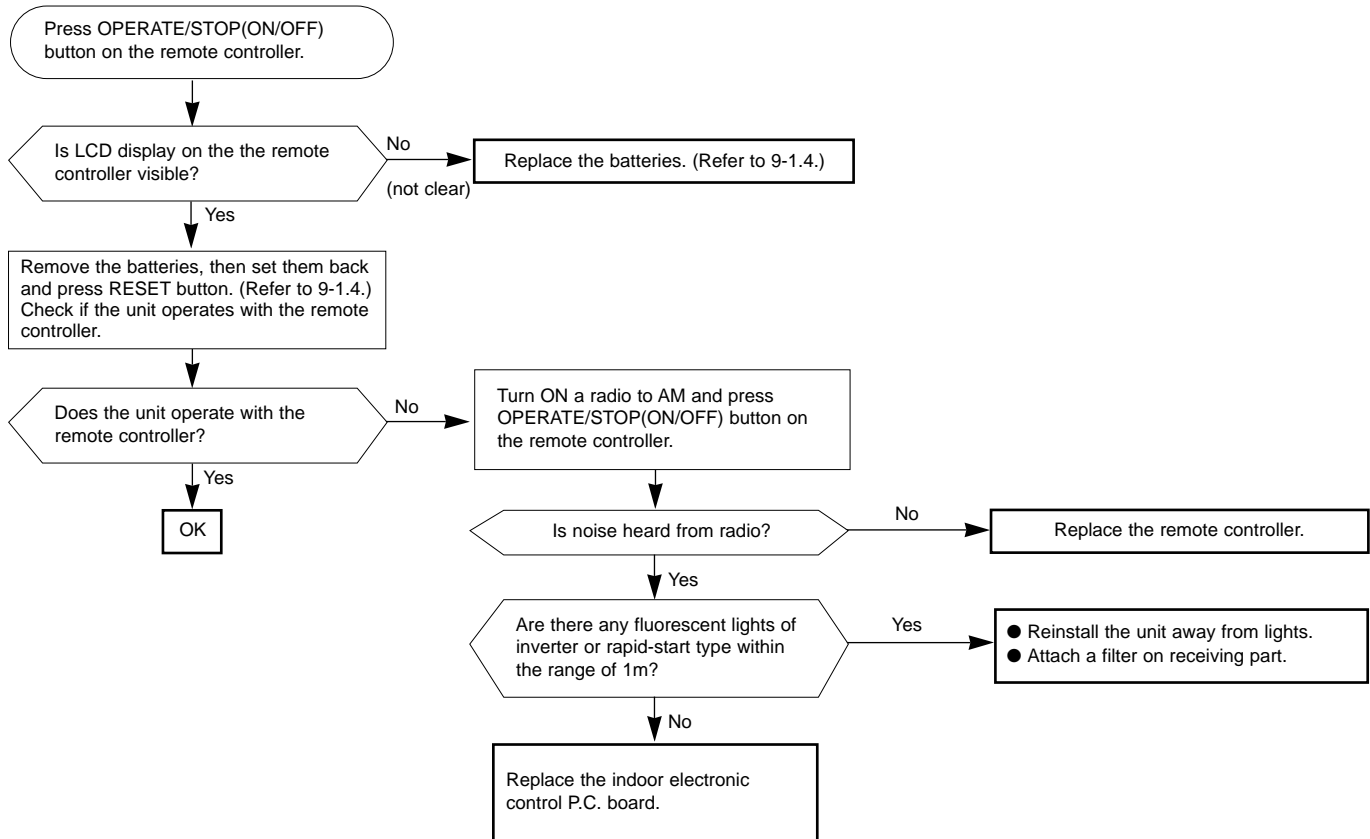
The indoor fan motor error has occurred, and the indoor fan repeats "12-second ON and 30-second OFF" 3times, and then stops.



Indoor unit operates by pressing EMERGENCY OPERATION switch, but does not operate with the remote controller.

② Check of remote controller and receiver P.C. board

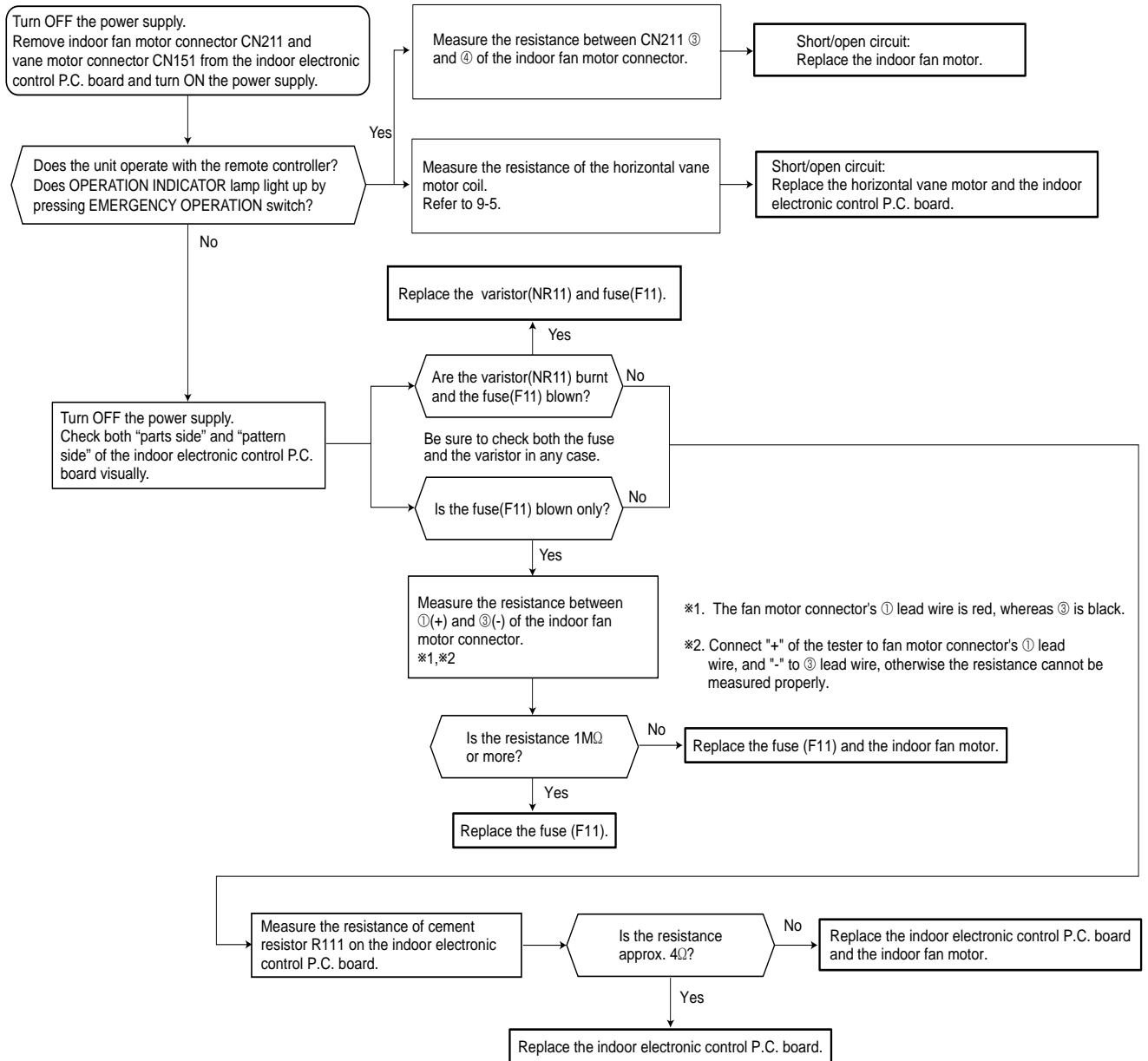
*Check if the remote controller is exclusive for this air conditioner.



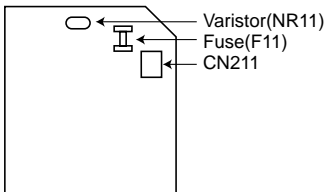
The unit does not operate with the remote controller.

Also, OPERATION INDICATOR lamp does not light up by pressing EMERGENCY OPERATION switch.

© Check of indoor electronic control P.C. board and indoor fan motor

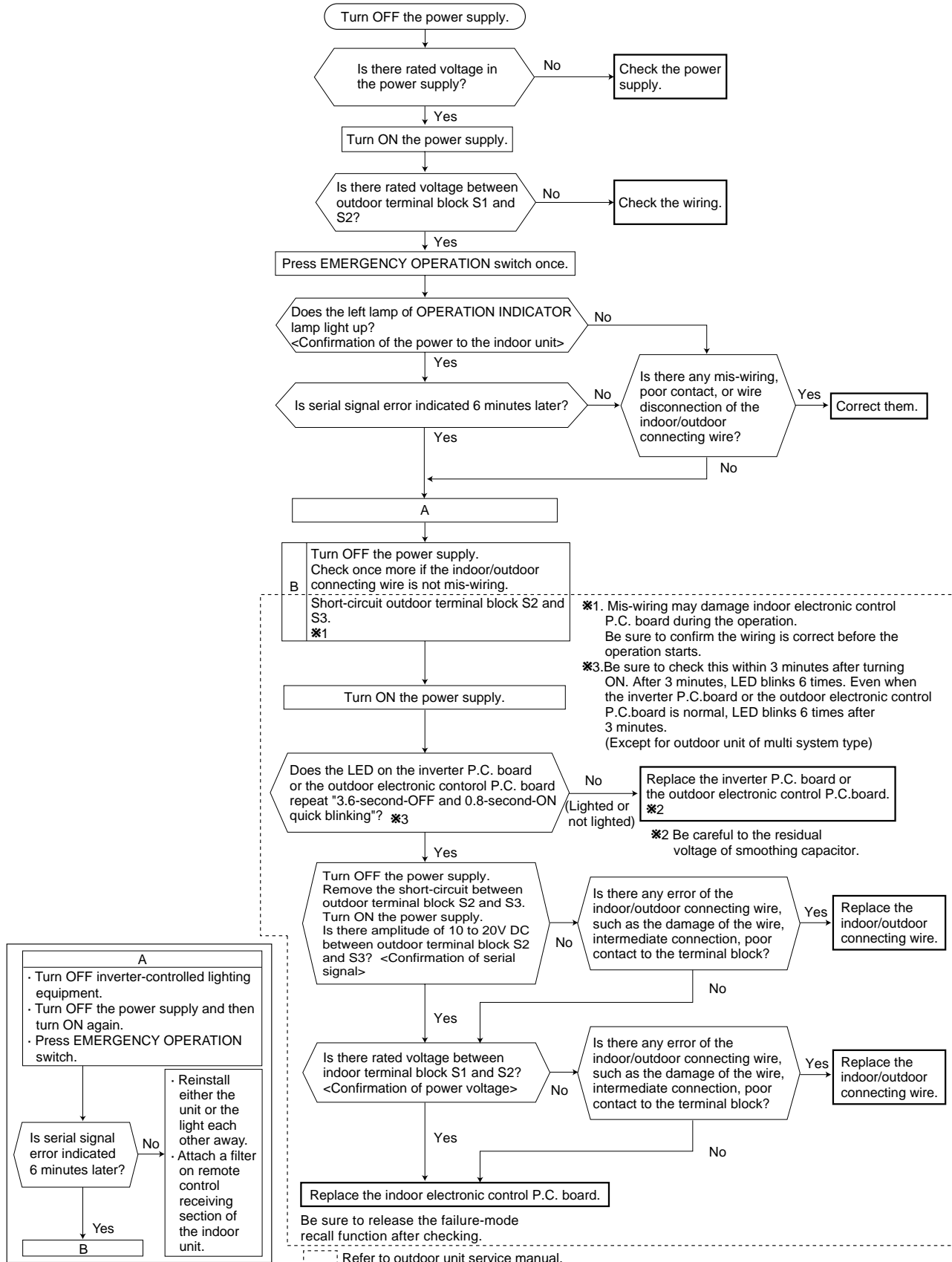


Indoor electronic control P.C.Board



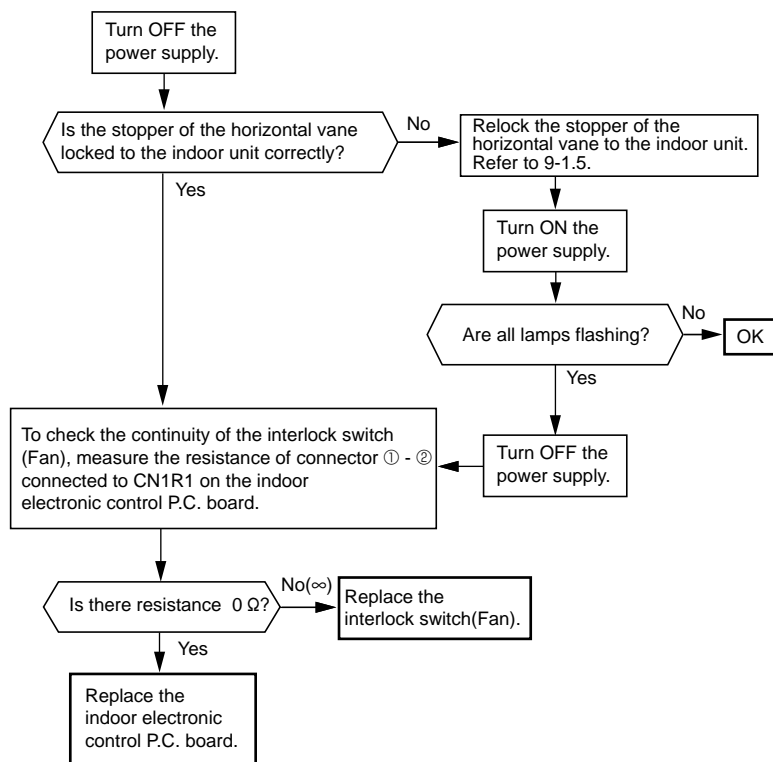
- When unit cannot operate neither by the remote controller nor by EMERGENCY OPERATION switch.
Indoor unit does not operate.
- When OPERATION INDICATOR lamp flashes ON and OFF every 0.5-second.
Outdoor unit does not operate.

D How to check mis-wiring and serial signal error

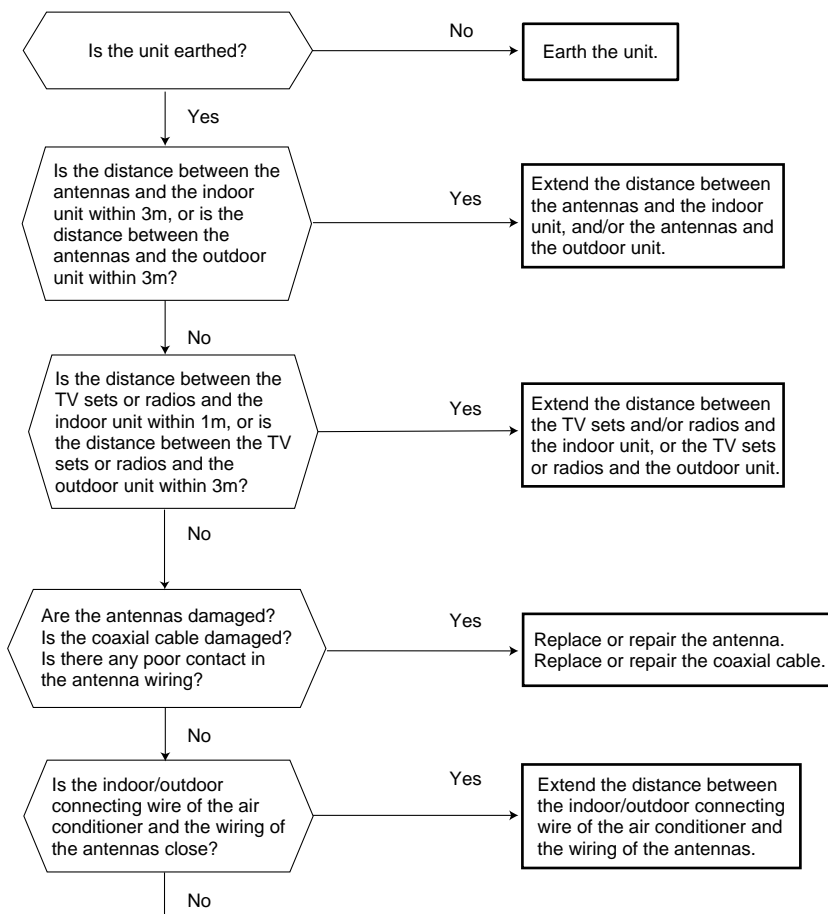


**When All lamps flash ON and OFF every 0.5-second.
Indoor unit and outdoor unit do not operate.**

E Check of installation of the horizontal vane



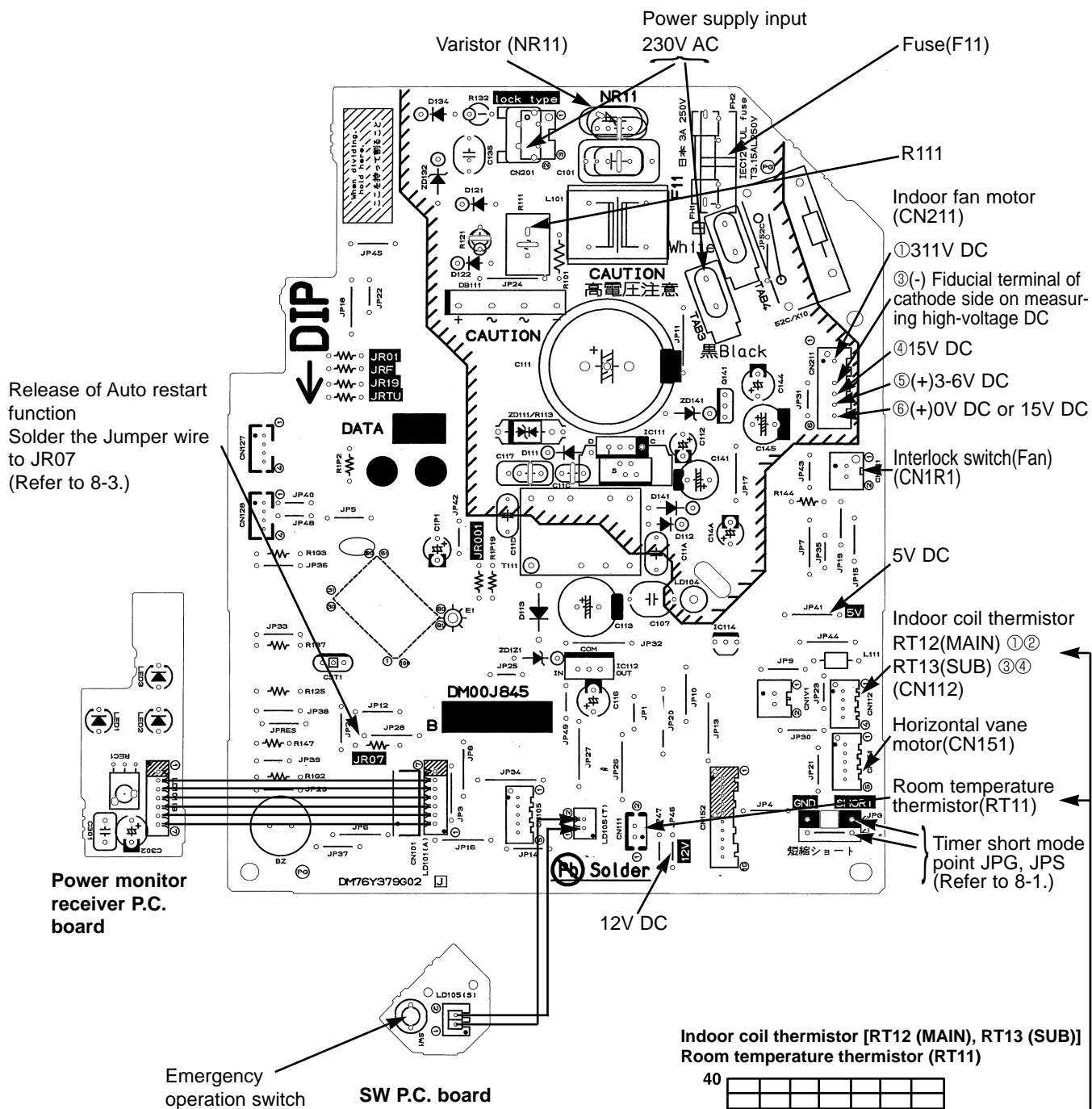
F Electromagnetic noise enters into TV sets or radios



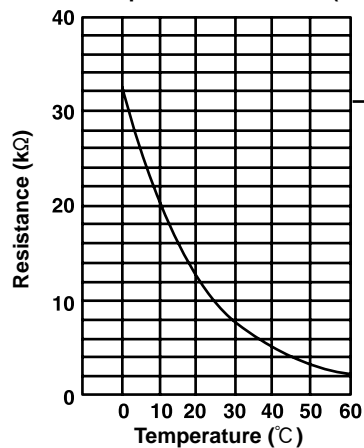
9-7. Test point diagram and voltage

MSZ-CB22VA MSZ-CB25VA MSZ-CB35VA

Indoor electronic control P.C. board



Indoor coil thermistor [RT12 (MAIN), RT13 (SUB)]
Room temperature thermistor (RT11)



<"Terminal with locking mechanism" Detaching points>

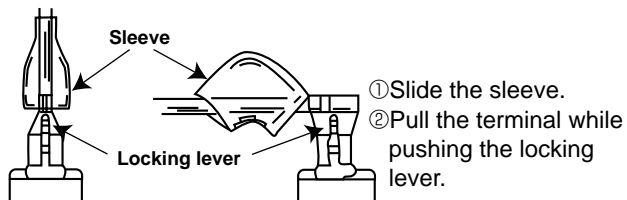
The terminal which has the locking mechanism can be detached as shown below.

There are two types (Refer to (1) and (2)) of the terminal with locking mechanism.

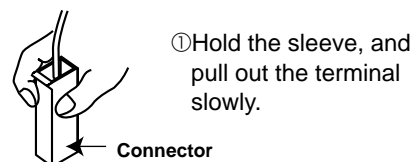
The terminal without locking mechanism can be detached by pulling it out.


Check the shape of the terminal before detaching.

(1) Slide the sleeve and check if there is a locking lever or not.

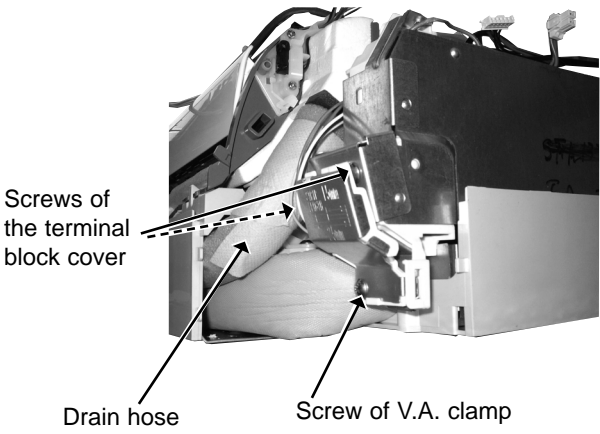
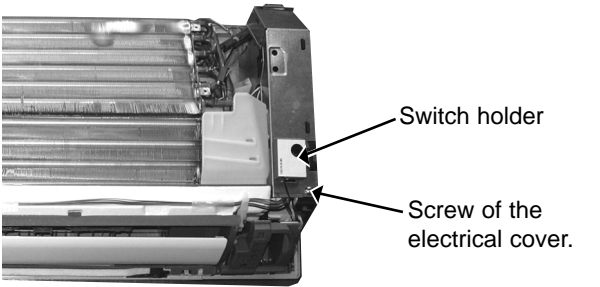
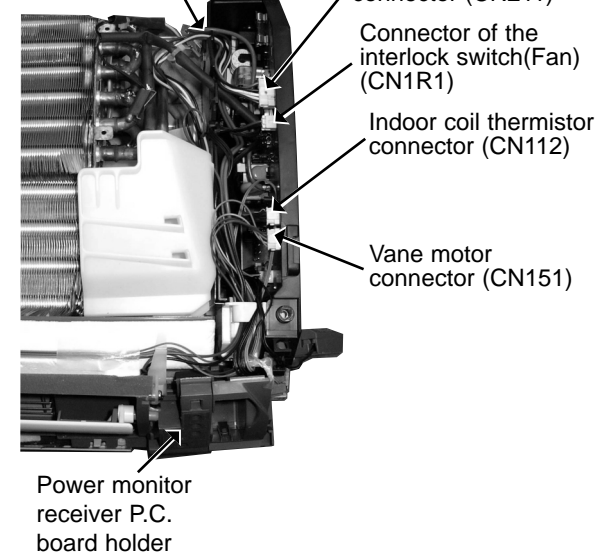


(2) The terminal with this connector has the locking mechanism.

**MSZ-CB22VA MSZ-CB25VA MSZ-CB35VA**

OPERATING PROCEDURE	PHOTOS
<p>1. Removing the panel</p> <p>(1) Remove the horizontal vane.</p> <p>(2) Remove the screw caps of the panel. Remove the screws. (See Photo 1.)</p> <p>(3) Hold the lower part of both ends on the panel and pull it slightly toward you, and then remove the panel by pushing it upward.</p>	<p>Photo 1</p>  <p>Horizontal vane</p> <p>Screws of the panel</p>



OPERATING PROCEDURE	PHOTOS
<p>2. Removing the electronic control P.C. board, the power monitor receiver P.C. board, SW P.C. board and the terminal block</p> <p>(1) Remove the horizontal vane, the panel (Refer to 1.) and the corner box.</p> <p>(2) Remove the screw of V.A. clamp, and then the indoor/outdoor connecting wire. (See Photo 2.)</p> <p>(3) Remove the switch holder from the electrical cover. (See Photo 3.)</p> <p>(4) Remove the screw of the electrical cover, and then the electrical cover. (See Photo 3.)</p> <p>(5) Remove the earth wire connected to the indoor electronic control P.C. board from the electrical box. (See Photo 4.)</p> <p>(6) Unhook the power monitor receiver P.C. board holder from the catch. (See Photo 4.)</p> <p>(7) Open the rear cover of the power monitor receiver P.C. board holder and pull out the power monitor receiver P.C. board.</p> <p>(8) Open the switch holder and pull out SW P.C. board.</p> <p>(9) Pull the electronic control P.C. board slightly toward you from the electrical box, and disconnect TAB3 and all the connectors on the electronic control P.C. board. (LD101 and LD105 are direct-mounted to the electronic control P.C. board.)</p> <p>(10) Pull out the electronic control P.C. board from the electrical box.</p> <p>(11) Remove the earth wire connected to the heat exchanger from the electrical box. (See Photo 4.)</p> <p>(12) Unhook the catches of the electrical box, and pull out the electrical box.</p> <p>(13) Remove the screws of the terminal block cover, and then the terminal block cover and the terminal block holder. (See Photo 2.)</p> <p>(14) Remove the terminal block by sliding it.</p>	<p>Photo 2</p>  <p>Photo 3</p> 
<p>3. Removing the electrical box</p> <p>(1) Remove the horizontal vane, the panel (Refer to 1.) and the corner box.</p> <p>(2) Remove the screw of V.A. clamp, and then the indoor/outdoor connecting wire. (See Photo 2.)</p> <p>(3) Remove the switch holder and the electrical cover. (See Photo 3.)</p> <p>(4) Remove the earth wire connected to the heat exchanger from the electrical box. (See Photo 4.)</p> <p>(5) Disconnect the following connectors on the electronic control P.C. board; the fan motor connector <CN211>, the indoor coil thermistor connector <CN112>, the vane motor connector <CN151>, the connector of the interlock switch (Fan) of the horizontal vane <CN1R1>.</p> <p>(6) Unhook the catches of the electrical box, and pull out the electrical box.</p>	<p>Photo 4</p> 

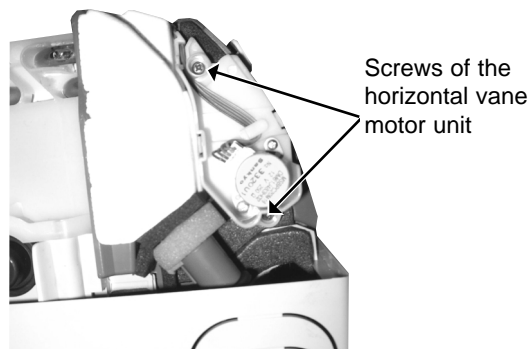
OPERATING PROCEDURE

PHOTOS

4. Removing the horizontal vane motor unit

- (1) Remove the horizontal vane and the panel. (Refer to 1.)
- (2) Remove the screws of the horizontal vane motor unit, and pull out the horizontal vane motor unit. (See Photo 5.)
- (3) Disconnect the connector from the horizontal vane motor unit.

Photo 5



5. Removing the indoor fan motor and the line flow fan

- (1) Remove the horizontal vane, the panel (Refer to 1.) and the corner box.
- (2) Remove the switch holder and the electrical box. (Refer to 3.)
- (3) Pull out the drain hose from the nozzle assembly, and remove the nozzle assembly.
- (4) Remove the screws fixing the motor bed. (See Photo 6.)
- (5) Loosen the screw fixing the line flow fan. (See Photo 7.)
- (6) Remove the motor bed together with fan motor and motor band.
- (7) Release the hooks of the motor band, and remove the motor band then pull out the indoor fan motor.
- (8) Remove the screws fixing the left side of the heat exchanger. (See Photo 8.)
- (9) Lift the heat exchanger, and pull out the line flow fan to the lower-left.

Photo 6

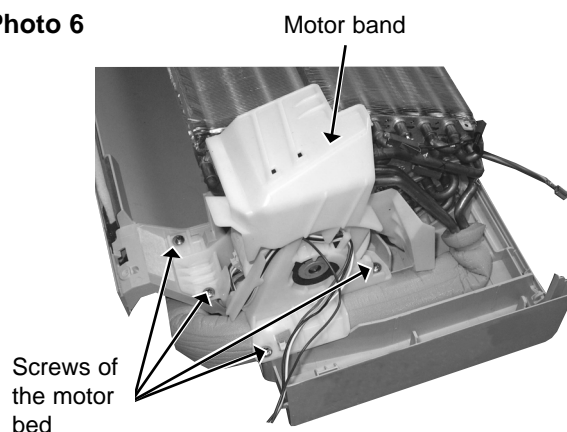


Photo 7

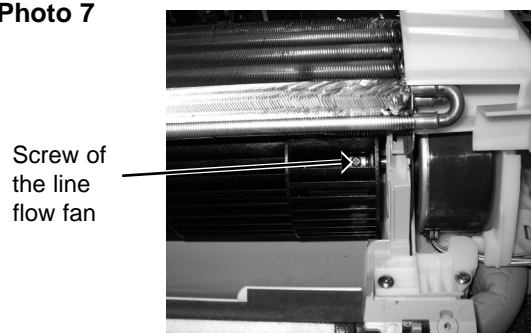
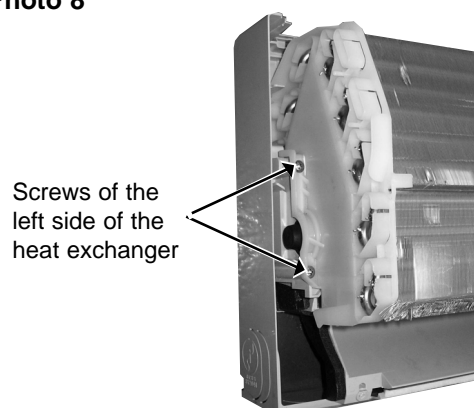


Photo 8



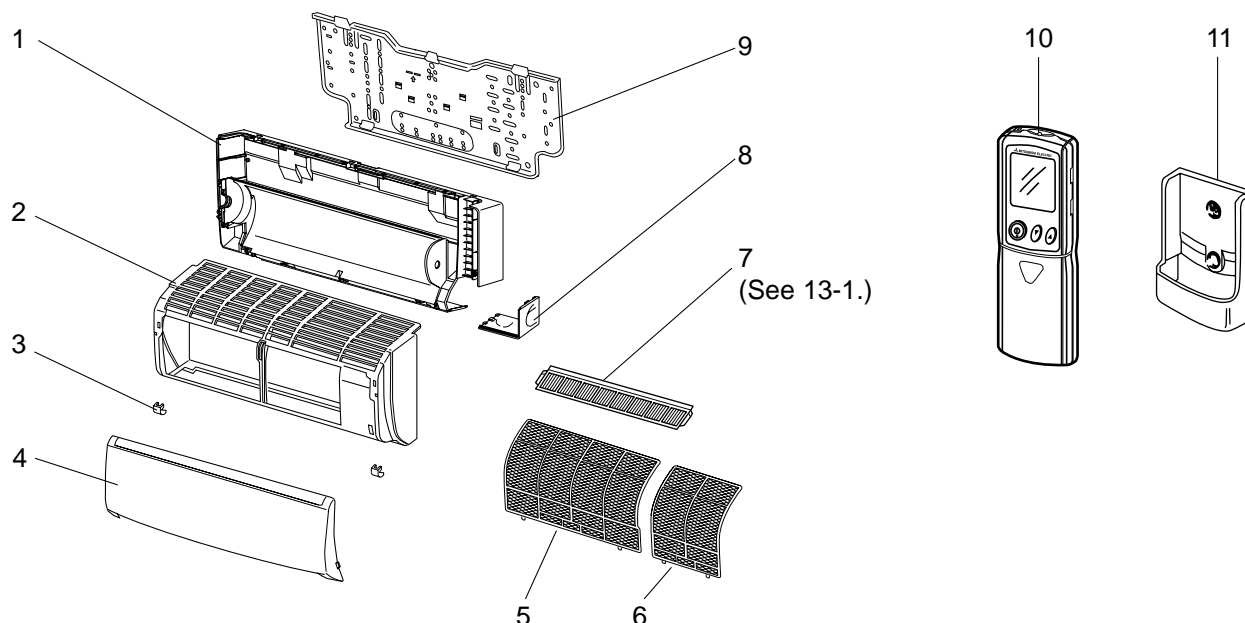
MSZ-CB22VA

MSZ-CB25VA

MSZ-CB35VA

11-1. INDOOR UNIT STRUCTURAL PARTS

11-2. ACCESSORY AND REMOTE CONTROLLER



11-1. INDOOR UNIT STRUCTURAL PARTS

No.	Part No.	Part name	Symbol in Wiring Diagram	Q'ty/unit			Remarks
				MSZ-CB22VA -[E]	MSZ-CB25VA -[E]	MSZ-CB35VA -[E]	
1	E02 A32 234	BOX		1	1	1	
2	E02 A63 000	PANEL ASSEMBLY		1	1	1	Including No.3,4
3	E02 913 067	SCREW CAP		2	2	2	2PCS/SET
4	E02 915 010	FRONT PANEL		1	1	1	
5	E02 915 100	CATECHIN AIR FILTER (LEFT)		1	1	1	
6	E02 916 100	CATECHIN AIR FILTER (RIGHT)		1	1	1	
7	—	AIR CLEANING FILTER		1	1	1	MAC-415FT-E
8	E02 A32 975	CORNER BOX (RIGHT)		1	1	1	
9	E02 913 970	INSTALLATION PLATE		1	1	1	

11-2. ACCESSORY AND REMOTE CONTROLLER

10	E02 915 426	REMOTE CONTROLLER		1	1	1	KM05B
11	E02 527 083	REMOTE CONTROLLER HOLDER		1	1	1	

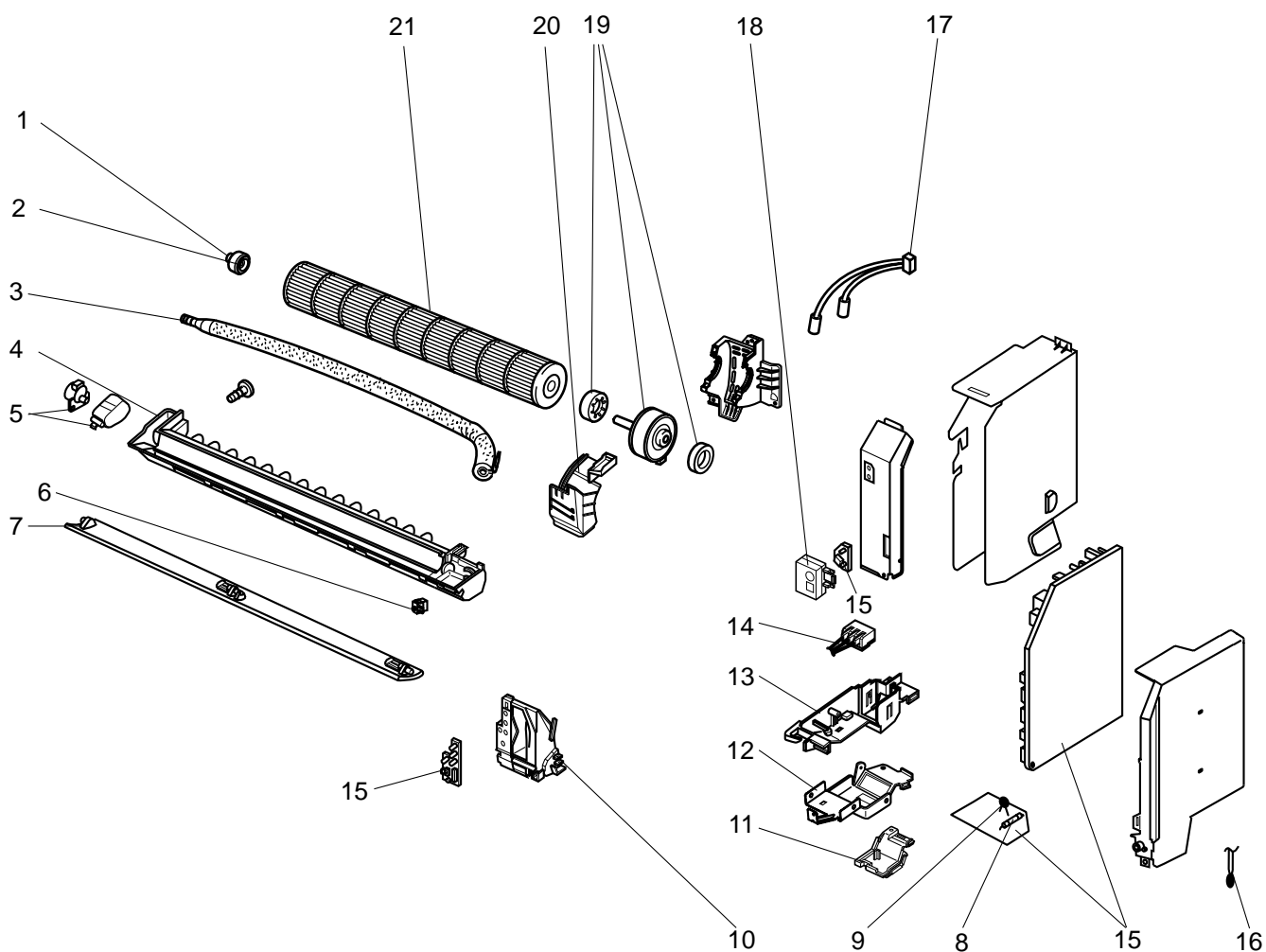
PARTS LIST (non-RoHS compliant)

MSZ-CB22VA

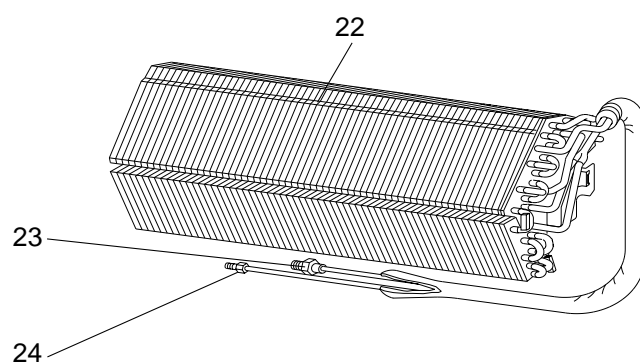
MSZ-CB25VA

MSZ-CB35VA

11-3. INDOOR UNIT ELECTRICAL PARTS AND FUNCTIONAL PARTS



11-4. INDOOR UNIT HEAT EXCHANGER



PARTS LIST (non-RoHS compliant)

11-3. INDOOR UNIT ELECTRICAL PARTS AND FUNCTIONAL PARTS

No.	Part No.	Part name	Symbol in Wiring Diagram	Q'ty/unit			Remarks
				MSZ-CB22VA -[E]	MSZ-CB25VA -[E]	MSZ-CB35VA -[E]	
1	E02 751 509	BEARING MOUNT		1	1	1	
2	E02 001 504	SLEEVE BEARING		1	1	1	
3	E02 897 702	DRAIN HOSE		1	1	1	
4	E02 915 235	NOZZLE ASSEMBLY		1	1	1	
5	E02 897 303	VANE MOTOR UNIT (HORIZONTAL)	MV	1	1	1	UP & DOWN
6	E02 897 316	INTERLOCK SWITCH(FAN)		1	1	1	
7	E02 913 040	HORIZONTAL VANE		1	1	1	
8	E02 A49 382	FUSE	F11	1	1	1	T3.15AL250V
9	E02 661 385	VARISTOR	NR11	1	1	1	
10	E02 915 095	POWER MONITOR RECEIVER P.C. BOARD HOLDER		1	1	1	
11	E02 897 784	V.A. CLAMP		1	1	1	
12	E02 897 780	TERMINAL BLOCK COVER		1	1	1	
13	E02 897 779	TERMINAL BLOCK HOLDER		1	1	1	
14	E02 913 375	TERMINAL BLOCK	TB	1	1	1	
15	E02 915 452	ELECTRONIC CONTROL P.C. BOARD *1		1			AUTO RESTART
	E02 916 452	ELECTRONIC CONTROL P.C. BOARD *1			1		AUTO RESTART
	E02 917 452	ELECTRONIC CONTROL P.C. BOARD *1				1	AUTO RESTART
16	E02 897 308	ROOM TEMPERATURE THERMISTOR	RT11	1	1	1	
17	E02 913 307	INDOOR COIL THERMISTOR	RT12, RT13	1	1	1	
18	E02 915 782	SWITCH HOLDER		1	1	1	
19	E02 915 300	INDOOR FAN MOTOR *2	MF	1	1	1	RC0J30- □ □
20	E02 897 333	MOTOR BAND		1	1	1	
21	E02 897 302	LINE FLOW FAN		1	1	1	

*1 Including SW P.C. BOARD and POWER MONITOR RECEIVER P.C. BOARD

*2 Including FAN MOTOR RUBBER MOUNT (2 PCS/SET)

11-4. INDOOR UNIT HEAT EXCHANGER

22	E02 913 620	INDOOR HEAT EXCHANGER		1	1	1	
23	E02 815 666	UNION (GAS)		1	1	1	φ9.52
24	E02 151 667	UNION (LIQUID)		1	1	1	φ6.35

12

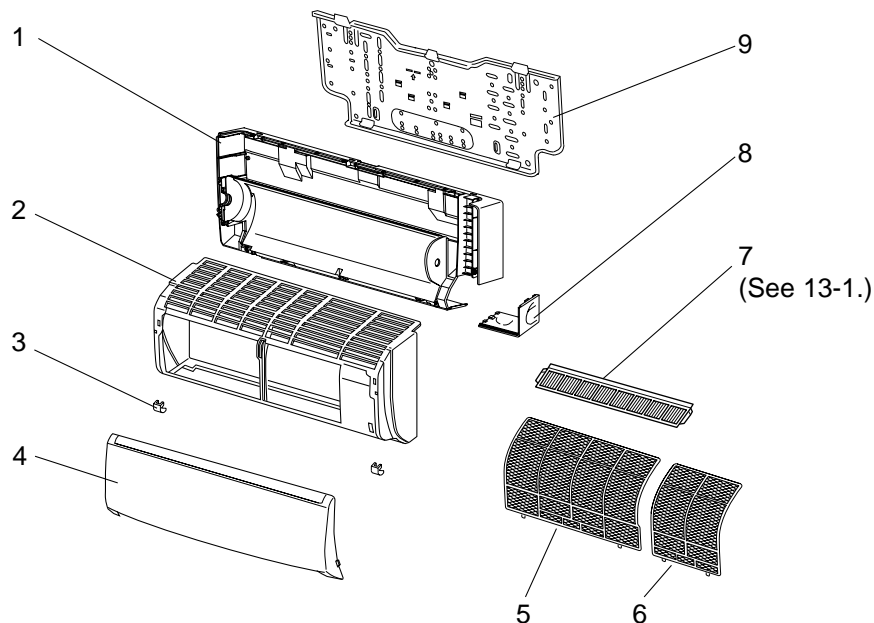
RoHS PARTS LIST (RoHS compliant)

MSZ-CB22VA

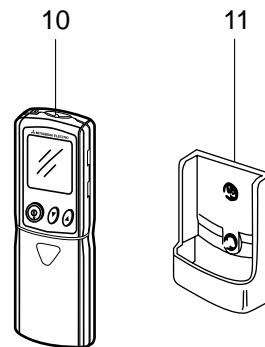
MSZ-CB25VA

MSZ-CB35VA

12-1. INDOOR UNIT STRUCTURAL PARTS



12-2. ACCESSORY AND REMOTE CONTROLLER



12-1. INDOOR UNIT STRUCTURAL PARTS

No.	RoHS	Part No.	Part name	Symbol in Wiring Diagram	Q'ty/unit						Remarks
					MSZ-CB22VA -		MSZ-CB25VA -		MSZ-CB35VA -		
					E1	E2	E1	E2	E1	E2	
1	G	E12 A32 234	BOX		1	1	1	1	1	1	Including No.3,4 2PCS/SET
2	G	E12 A63 000	PANEL ASSEMBLY		1	1	1	1	1	1	
3	G	E12 913 067	SCREW CAP		2	2	2	2	2	2	
4	G	E12 915 010	FRONT PANEL		1	1	1	1	1	1	
5	G	E12 915 100	CATECHIN AIR FILTER (LEFT)		1	1	1	1	1	1	
6	G	E12 916 100	CATECHIN AIR FILTER (RIGHT)		1	1	1	1	1	1	
7	G	_____	AIR CLEANING FILTER		1	1	1	1	1	1	MAC-415FT-E
8	G	E12 A32 975	CORNER BOX (RIGHT)		1	1	1	1	1	1	
9	G	E12 913 970	INSTALLATION PLATE		1	1	1	1	1	1	

12-2. ACCESSORY AND REMOTE CONTROLLER

10	G	E12 915 426	REMOTE CONTROLLER		1	1	1	1	1	1	KM05B
11	G	E12 527 083	REMOTE CONTROLLER HOLDER		1	1	1	1	1	1	

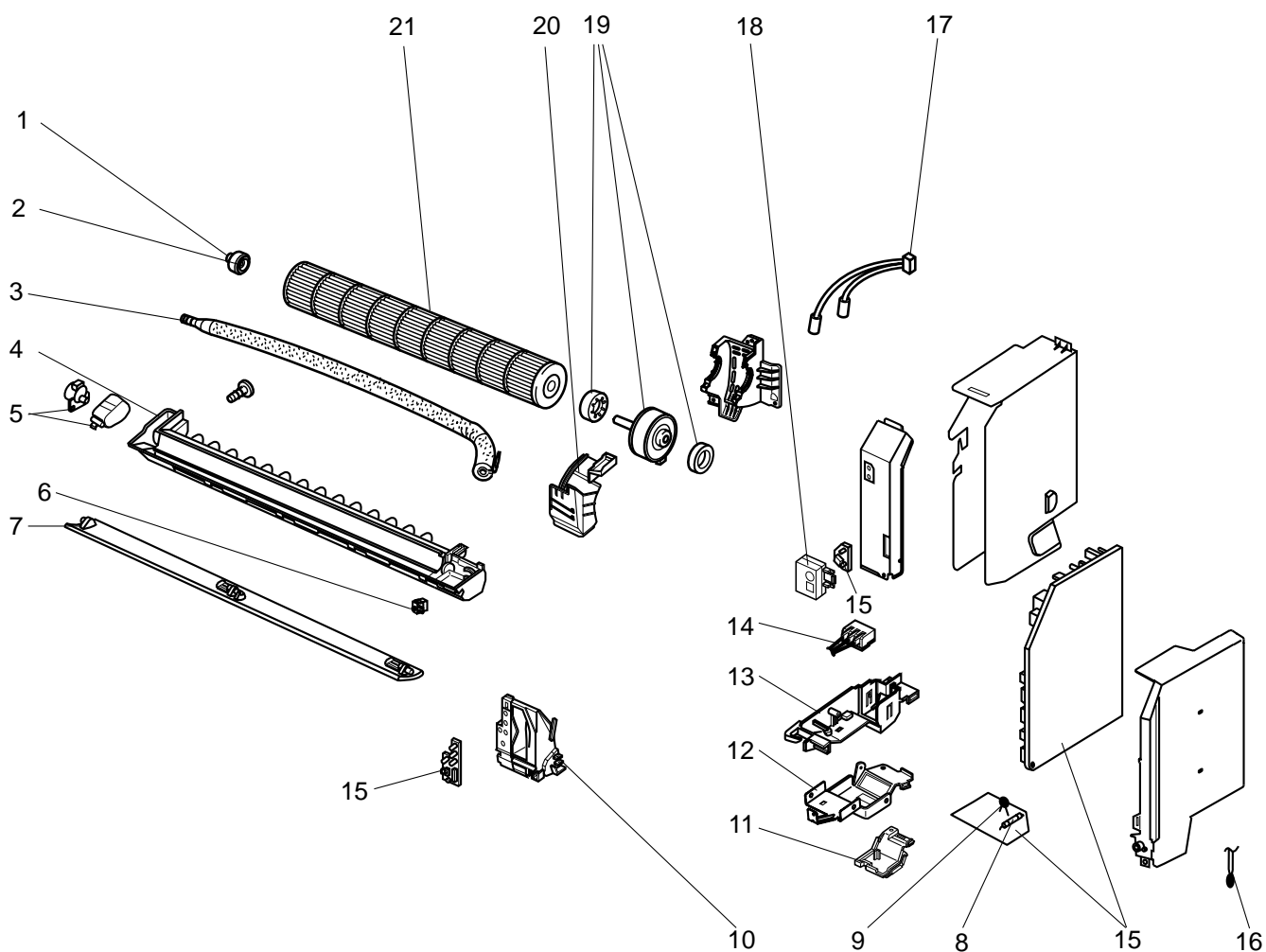
RoHS PARTS LIST (RoHS compliant)

MSZ-CB22VA

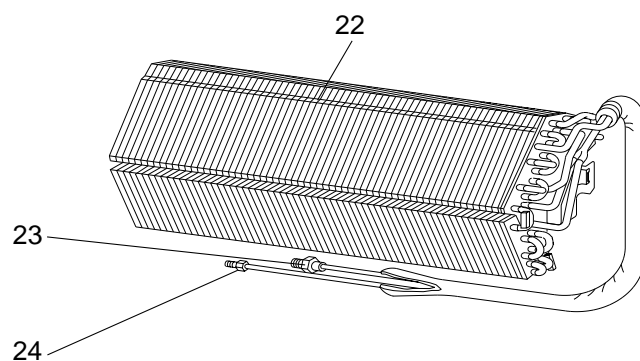
MSZ-CB25VA

MSZ-CB35VA

12-3. INDOOR UNIT ELECTRICAL PARTS AND FUNCTIONAL PARTS



12-4. INDOOR UNIT HEAT EXCHANGER



RoHS PARTS LIST (RoHS compliant)

12-3. INDOOR UNIT ELECTRICAL PARTS AND FUNCTIONAL PARTS

No.	ROHS	Part No.	Part name	Symbol in Wiring Diagram	Q'ty/unit						Remarks
					MSZ-CB22VA -		MSZ-CB25VA -		MSZ-CB35VA -		
					E1	E2	E1	E2	E1	E2	
1	G	E12 751 509	BEARING MOUNT		1	1	1	1	1	1	
2	G	E12 001 504	SLEEVE BEARING		1	1	1	1	1	1	
3	G	E12 897 702	DRAIN HOSE		1	1	1	1	1	1	
4	G	E12 915 235	NOZZLE ASSEMBLY		1	1	1	1	1	1	
5	G	E12 897 303	VANE MOTOR UNIT (HORIZONTAL)	MV	1	1	1	1	1	1	UP & DOWN
6	G	E12 897 316	INTERLOCK SWITCH(FAN)		1	1	1	1	1	1	
7	G	E12 913 040	HORIZONTAL VANE		1	1	1	1	1	1	
8	G	E12 A49 382	FUSE	F11	1	1	1	1	1	1	T3.15AL250V
9	G	E12 661 385	VARISTOR	NR11	1	1	1	1	1	1	
10	G	E12 915 095	POWER MONITOR RECEIVER P.C. BOARD HOLDER		1	1	1	1	1	1	
11	G	E12 897 784	V.A. CLAMP		1	1	1	1	1	1	
12	G	E12 897 780	TERMINAL BLOCK COVER		1	1	1	1	1	1	
13	G	E12 897 779	TERMINAL BLOCK HOLDER		1	1	1	1	1	1	
14	G	E12 913 375	TERMINAL BLOCK	TB	1	1	1	1	1	1	
15	G	E12 916 452	ELECTRONIC CONTROL P.C. BOARD *1				1 *3				AUTO RESTART
	G	E12 B39 452	ELECTRONIC CONTROL P.C. BOARD *1		1	1					AUTO RESTART
	G	E12 B40 452	ELECTRONIC CONTROL P.C. BOARD *1				1 *4	1			AUTO RESTART
	G	E12 B41 452	ELECTRONIC CONTROL P.C. BOARD *1						1	1	AUTO RESTART
16	G	E12 897 308	ROOM TEMPERATURE THERMISTOR	RT11	1	1	1	1	1	1	
17	G	E12 913 307	INDOOR COIL THERMISTOR	RT12, RT13	1	1	1	1	1	1	
18	G	E12 915 782	SWITCH HOLDER		1	1	1	1	1	1	
19	G	E12 915 300	INDOOR FAN MOTOR *2	MF	1	1	1	1	1	1	RC0J30- □ □
20	G	E12 897 333	MOTOR BAND		1	1	1	1	1	1	
21	G	E12 897 302	LINE FLOW FAN		1	1	1	1	1	1	

*1 Including SW P.C. BOARD and POWER MONITOR RECEIVER P.C. BOARD

*2 Including FAN MOTOR RUBBER MOUNT (2 PCS/SET)

*3 Serial number : ~6000120

*4 Serial number : 6000121~

Refer to 3.SPECIFICATION as for difference between *3 and *4.

12-4. INDOOR UNIT HEAT EXCHANGER

22	G	E12 913 620	INDOOR HEAT EXCHANGER		1	1	1	1	1	1	
23	G	E12 815 666	UNION (GAS)		1	1	1	1	1	1	φ9.52
24	G	E12 151 667	UNION (LIQUID)		1	1	1	1	1	1	φ6.35

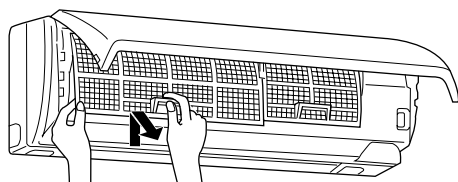
13-1. AIR CLEANING FILTER (ANTI-ALLERGY ENZYME FILTER)

- AIR CLEANING FILTER removes fine dust of 0.01 micron from air by means of static electricity.
- Normal life of AIR CLEANING FILTER is 1 year.
If AIR CLEANING FILTER is to be washed, soak AIR CLEANING FILTER in water (when showing dirt, in lukewarm water) and rinse it delicately, without removing the filter from the frame about once every 3 months.
- Clogged AIR CLEANING FILTER may reduce the air conditioner capacity or cause frost on the air outlet.
- Do not remove or attach AIR CLEANING FILTER during unit operation.

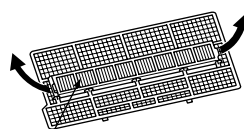
Model	Part No.
MSZ-CB22VA MSZ-CB25VA MSZ-CB35VA	MAC-415FT-E

Replacement of the air cleaning filter

- (1) Remove the catechin air filter(left one)
The air cleaning filter is not attached to the right side catechin air filter



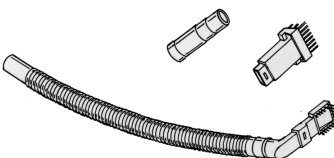
- (2) Remove the air cleaning filter(Blue bellows type) from the catechin air filter.

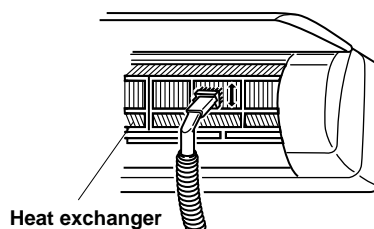


Air cleaning filter
(Blue bellows type)

13-2. QUICK CLEAN KIT

- You can sweep the surface of heat exchanger if you install the special-made brush to your vacuum cleaner.

Model	Part No.	
MSZ-CB22VA MSZ-CB25VA MSZ-CB35VA	MAC-093SS-E	



Heat exchanger



HEAD OFFICE: TOKYO BLDG, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

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